



# USB-87P1/2/4/8 Quick Start 1.00

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## Package Checklist

Items	Quantity	Model No.	Description
USB-87Pn	1	USB-87P1	Hardware module: USB-87Pn I/O Unit P1: 1 Slot      P2: 2 Slots P4: 4 Slots      P8: 8 Slots
		USB-87P2	
		USB-87P4	
		USB-87P8	
Cable	1	CA-USB18	USB connector cable
Manual	1	-	Quick Start Manual (this manual)
CD	1	-	Software utility, USB-87Pn User Manual
Screw Driver	1	-	2.4 mm Screw driver (minus style)

**Note : USB-87Pn is only for High Profile I-87K I/O modules, please DO NOT use Low Profile I/O modules. For more information, please refer to Chapter 2.2.5 & Appendix B of “USB-87P1/2/4/8 User Manual”.**

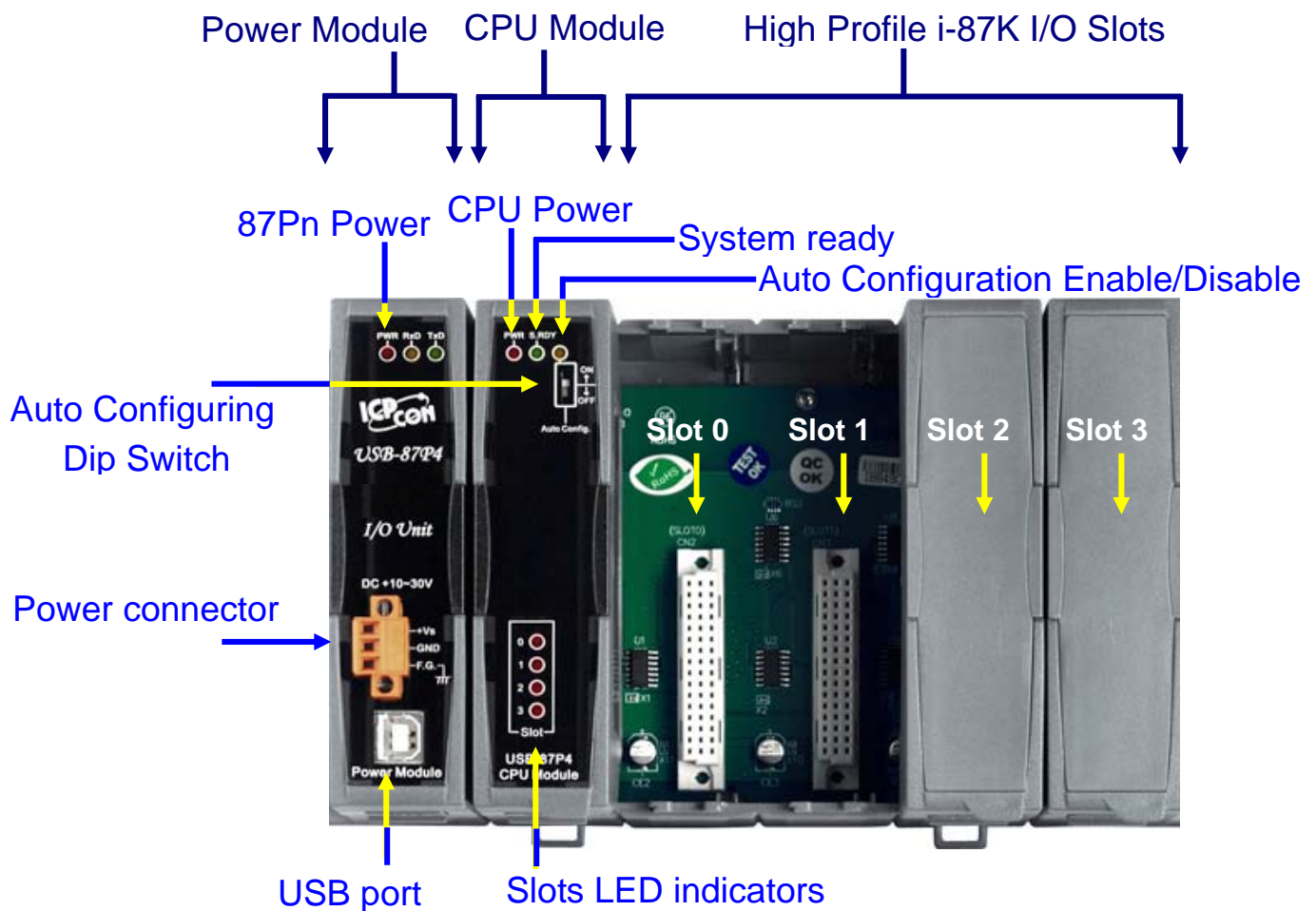
## Preparation

- Power Supply: +10V ~ +30V /DC (Ex: DP-665)  
[http://www.icpdas.com/products/Accessories/power\\_supply/power\\_list.htm](http://www.icpdas.com/products/Accessories/power_supply/power_list.htm)
- Install USB-87Pn DriverInstaller to PC  
CD:\NAPDOS\87pn\_io\_unit\USB-87Pn  
or [ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/87pn\\_io\\_unit/USB-87Pn/](ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/87pn_io_unit/USB-87Pn/)
- Install DCON Utility to PC  
(Version 4.5.2 or above version. Please remove the old version before install the new version) CD:\Napdos\Driver\DCON\_Utility  
or [ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon\\_utility/](ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_utility/)

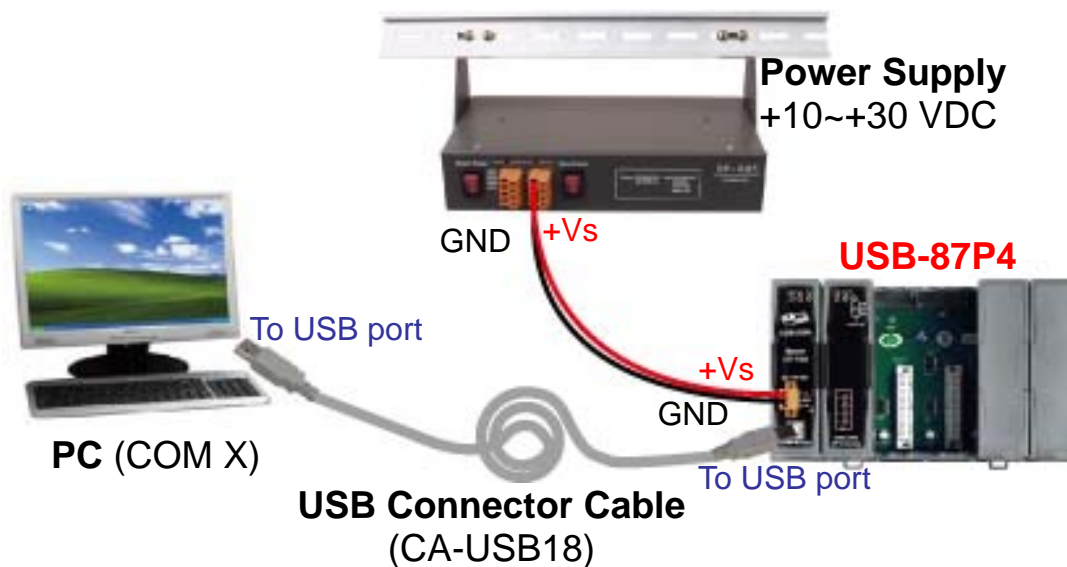


# ➔ Hardware Configuration

## 1. **View** of the USB-87Pn



## 2. **Wire** the 87Pn to power and PC





### 3. Configure CPU module

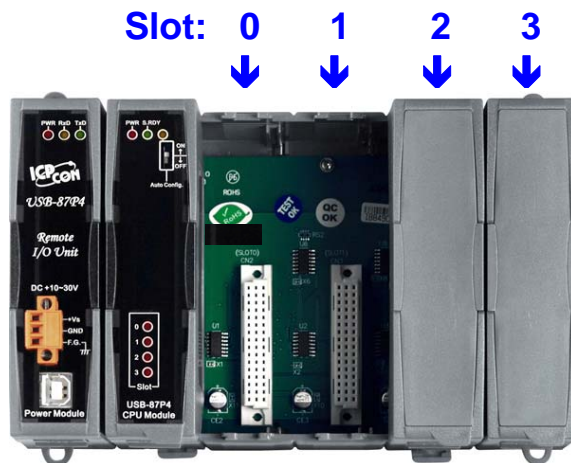
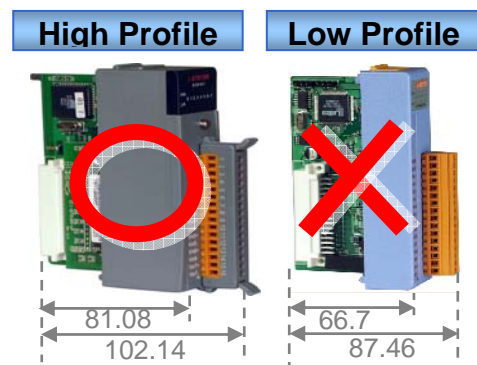
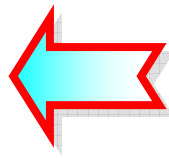


Switch	Label	Setting	Description
Dip Switch	Auto Config.	ON	Enable (Switch to ON)
		OFF	Disable

### 4. Plug in the High Profile I/O modules

Example: Plug in i-87019R to Slot 0.

p.s. i-87019R is an AI (Analog Input) High Profile module



Net Address: 1 2 3 4 5

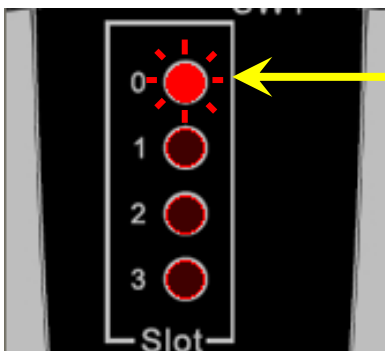
**i-87019R is auto-configured:**

**Baud Rate: 115200**

**Checksum: Disable**

**Net Address: 2**

**Note: The Net Address of USB-87PN is always 1.**



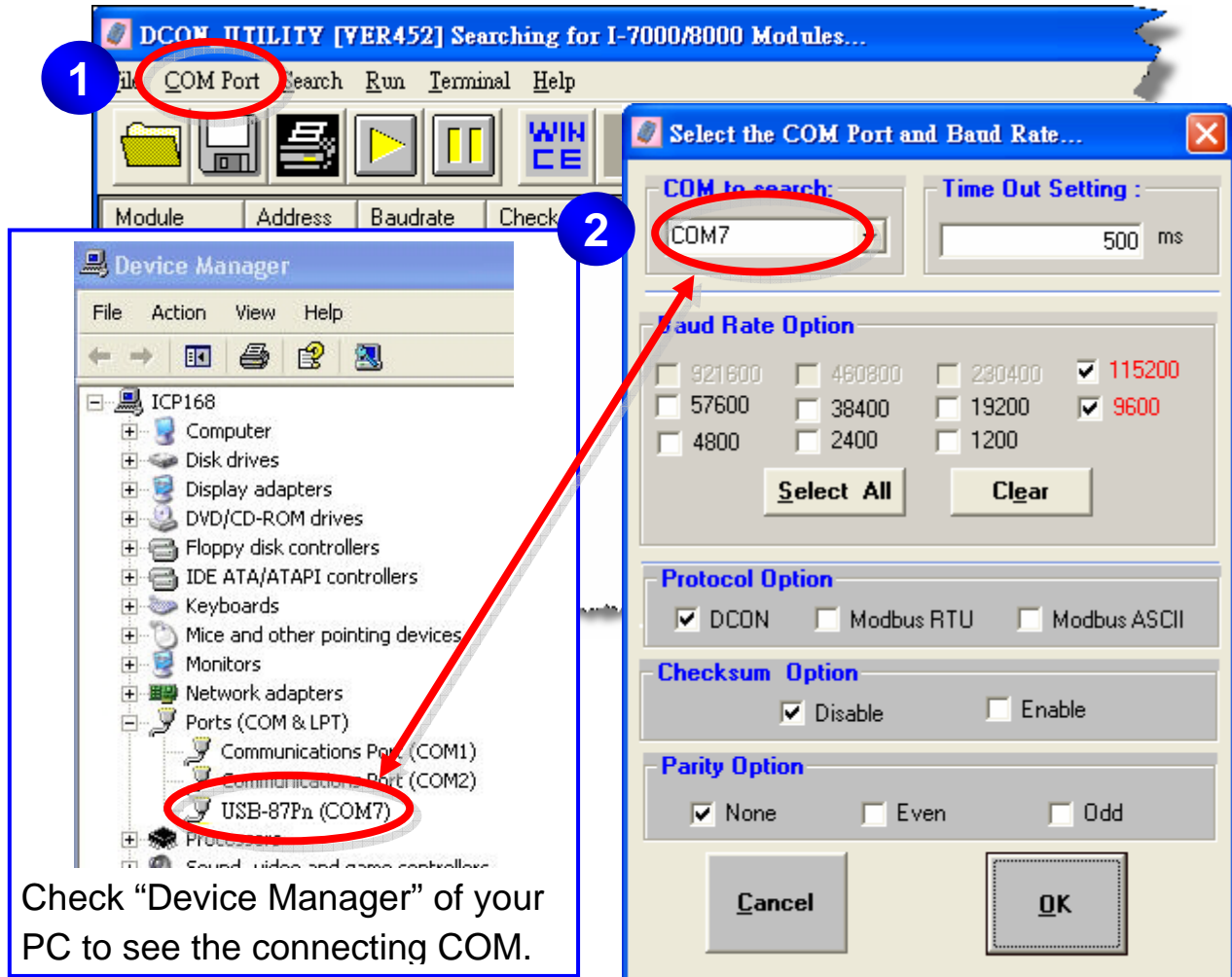
- After plugged in, the slot indicator is flashing per 100 ms.
- When software configuration is completed, the LED becomes off.
- If configuration is failed, the LED is always on.



# Software Configuration

## 1. Run DCON Utility to **Search** the USB-87Pn (Ex: USB-87P8)

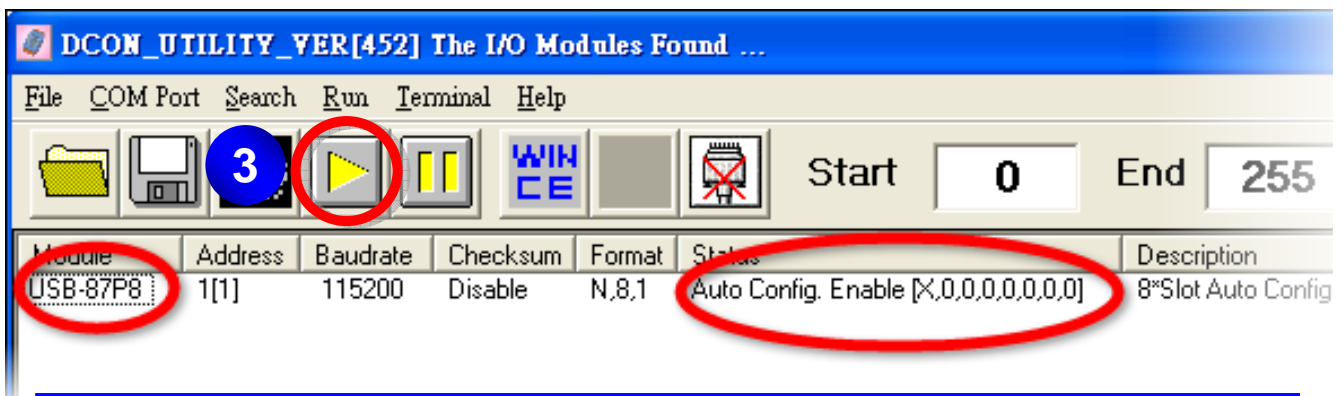
**Note : Please finish the “Preparation” (P.1) before Software Configuration.**



1. **COM Port**


2. **COM7**

Check “Device Manager” of your PC to see the connecting COM.



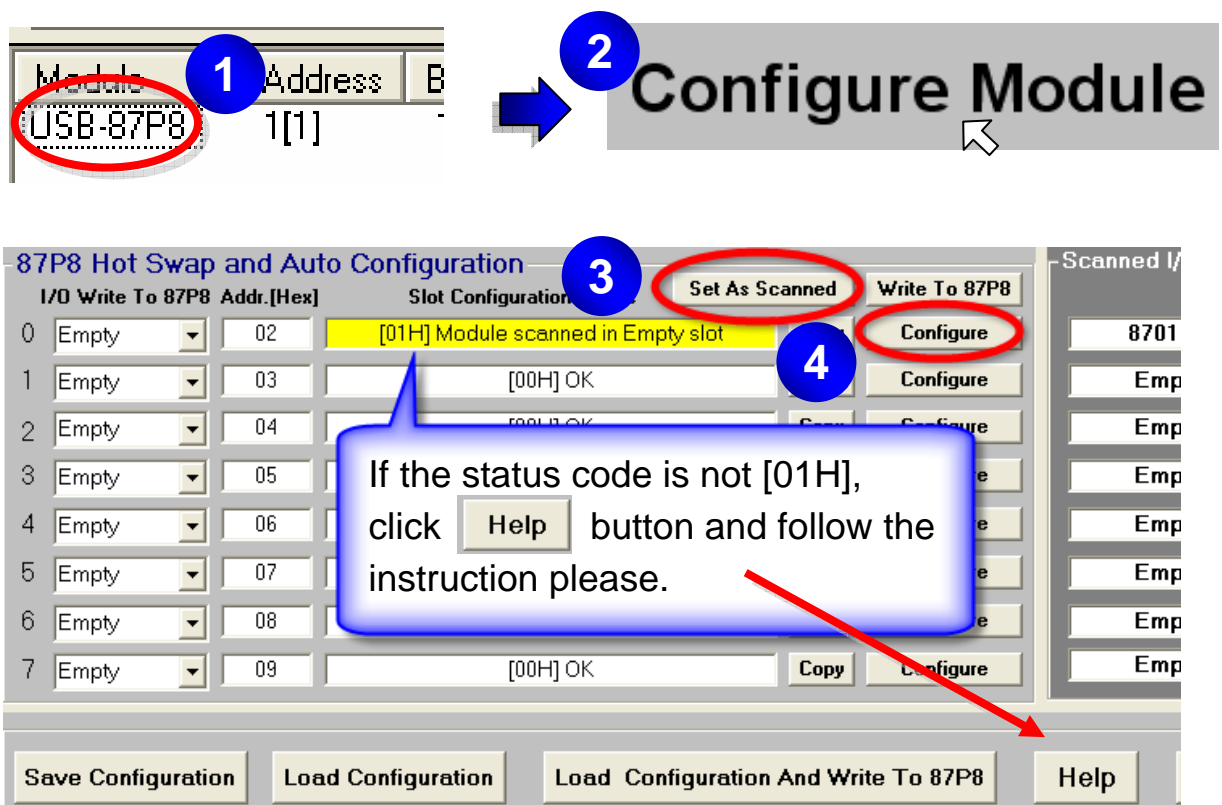
3. **Run**

Module	Address	Baudrate	Checksum	Format	Status	Description
USB-87P8	1[1]	115200	Disable	N,8,1	Auto Config. Enable [X,0,0,0,0,0,0,0]	8*Slot Auto Config

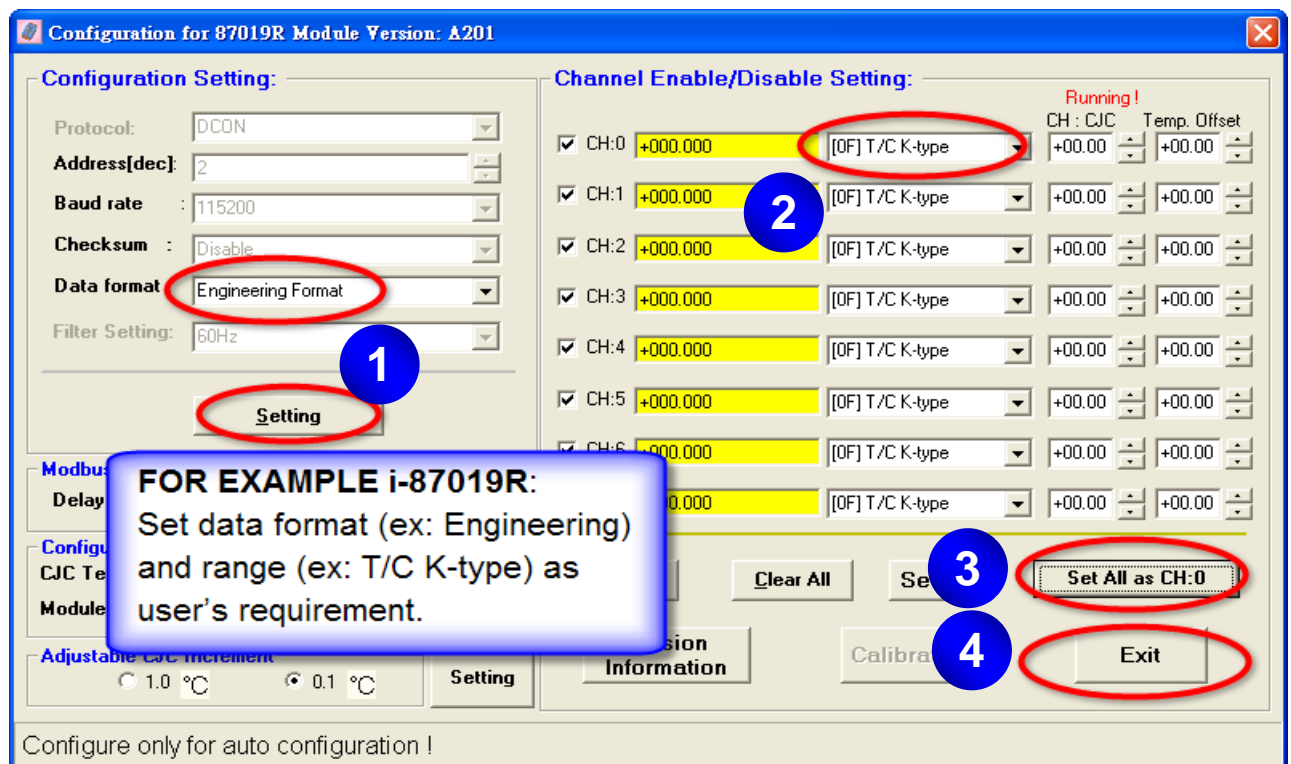
When the USB-87Pn is found, click  to stop the searching.  
The “X” of “[X,0,0,0,...]” means “The configuration of that slot is not completed or not correct.”



## 2. Click “USB-87Pn” to setup slots

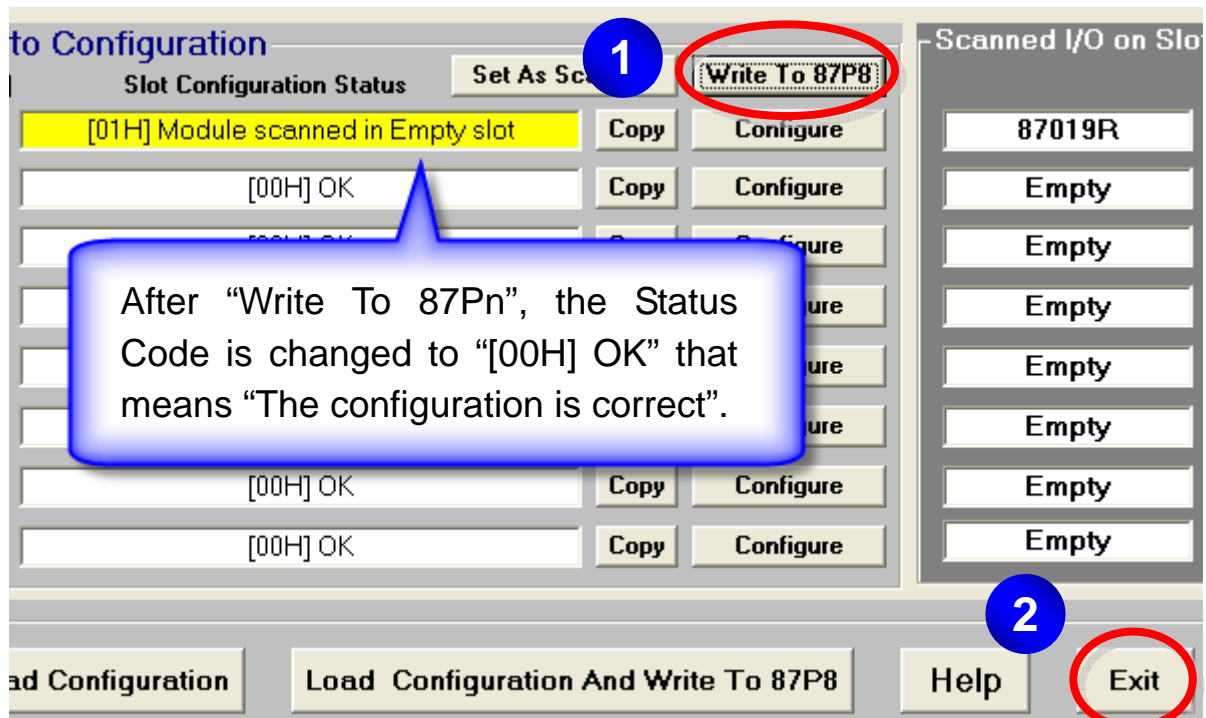


## 3. Configure the 87K I/O module

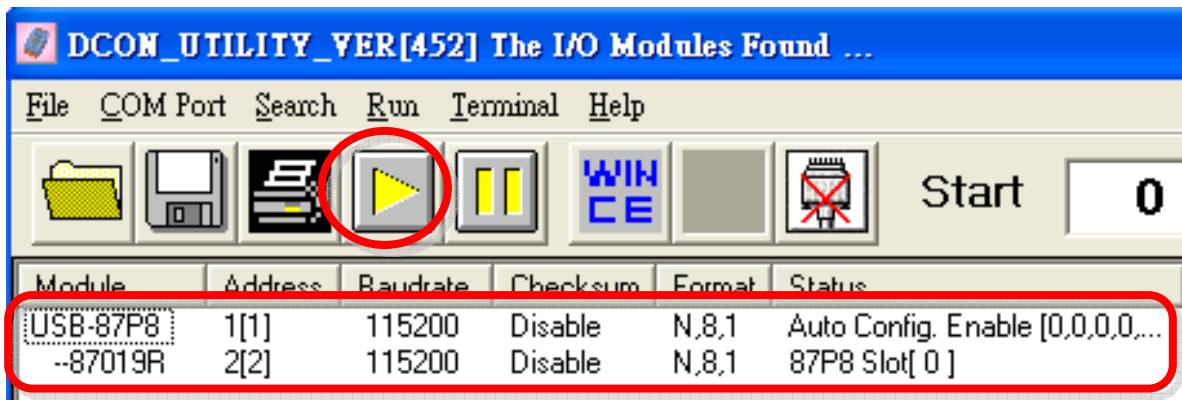




4. Click “Write To 87Pn” button



5. Click “Start Search” button



**Now the configuration is done!**

“[0,0,0,0...]” of “Status” means “The I/O configuration of each slot is correct”. Each plugged I/O module will be listed under the USB-87Pn. User can click the name of I/O module to watch its configuration.

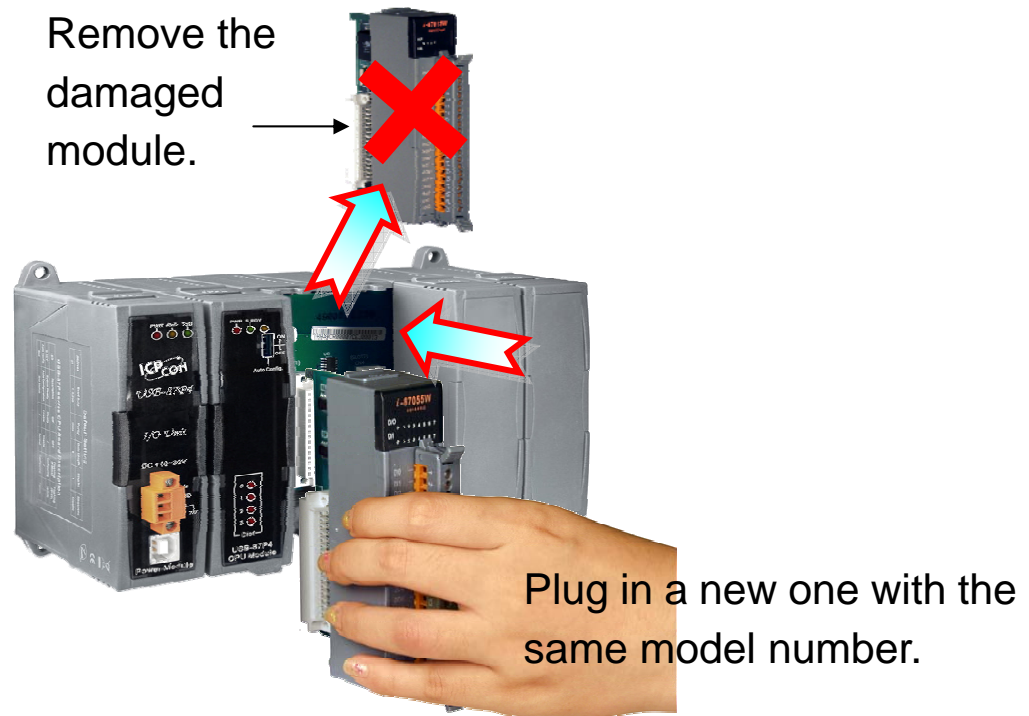
**Note:**

1. For **changing** the configuration of 87K I/O module, please repeat from the **STEP 2** of the **Software Configuration**.



## **Change the hardware I/O module**

User doesn't need to configure I/O module again!



**Easy! Convenient!**

## **Technical Support**

1. USB-87P1/2/4/8 User Manual  
CD:\NAPDOS\87Pn\_io\_unit\USB-87Pn or  
[ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/87pn\\_io\\_unit/usb-87pn/](ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/87pn_io_unit/usb-87pn/)
2. DCON Utility User Manual  
CD:\Napdos\Driver\DCON\_Utility\Manual or  
[ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon\\_utility/manual/](ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_utility/manual/)
3. I-87K high profile series I/O modules selection guide  
[http://www.icpdas.com/products/PAC/i-8000/8000\\_IO\\_modules.htm](http://www.icpdas.com/products/PAC/i-8000/8000_IO_modules.htm)
4. Our service email account : [service@icpdas.com](mailto:service@icpdas.com)
5. Our website : [www.icpdas.com](http://www.icpdas.com)